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Initialise\_job\_table

Job\_table(1) = “A80”

Job\_table(2) = “A90”

Job\_table(3) = “B30”

Job\_table(4) = “B50”

Job\_table(5) = “B70”

Job\_table(6) = “C20”

Job\_table(7) = “C40”

Job\_table(8) = “D50”

END

Initialise\_pay\_table

pay\_table(1) = 01

pay\_table(2) = 02

pay\_table(3) = 03

pay\_table(4) = 04

pay\_table(5) = 05

pay\_table(6) = 06

pay\_table(7) = 07

END

DETERMINE\_JOB\_AND\_PAY

OPEN file EMPLOYEE.DAT to read

Set total\_employee to zero

Read EMP\_Job\_code and EMP\_Pay\_code

DOWHILE records exist THEN

total\_employee = total\_employee + 1

Print EMP\_no and EMP\_Name

Set low\_element\_job to 1

Set high\_element\_job to 8

Set element\_found\_job to false

DOWHILE (NOT element\_found\_job) AND (low\_element\_job <= high\_element\_job)

Index\_job = (low\_element\_job + high\_element\_job)/2

IF job\_table(Index\_job) = EMP\_Job\_code THEN

Set element\_found\_job to true

ELSE

IF EMP\_Job\_code < job\_table(Index\_job) THEN

high\_element\_job = index\_job – 1

ELSE

low\_element\_job = index\_job + 1

ENDIF

ENDIF

ENDDO

IF element\_found\_job = true THEN

IF job\_table(Index\_job) = “A80” THEN

Print “Clerk”

ELSE IF job\_table(Index\_job) = “A90” THEN

Print “Word processor”

ELSE IF job\_table(Index\_job) = “B30” THEN

Print “Accountant”

ELSE IF job\_table(Index\_job) = “B50” THEN

Print “Programmer”

ELSE IF job\_table(Index\_job) = “B70” THEN

Print “System analyst”

ELSE IF job\_table(Index\_job) = “C20” THEN

Print “Engineer”

ELSE IF job\_table(Index\_job) = “C40” THEN

Print “Senior engineer”

ELSE IF job\_table(Index\_job) = “D50” THEN

Print “Manager”

ENDIF

ENDIF

Set low\_element\_pay to 1

Set high\_element\_pay to 7

Set element\_found\_pay to false

DOWHILE (NOT element\_found\_pay) AND (low\_element\_pay <= high\_element\_pay)

Index\_pay = (low\_element\_pay + high\_element\_pay)/2

IF pay\_table(Index\_pay) = EMP\_Pay\_code THEN

Set element\_found\_pay to true

ELSE

IF EMP\_Pay\_code < pay\_table(Index\_pay) THEN

high\_element\_pay = index\_pay – 1

ELSE

low\_element\_pay = index\_pay + 1

ENDIF

ENDIF

ENDDO

IF element\_found\_pay = true THEN

IF pay\_table(Index\_pay) = 01 THEN

Print “$9.00”

ELSE IF pay\_table(Index\_pay) = 02 THEN

Print “$9.50”

ELSE IF pay\_table(Index\_pay) = 03 THEN

Print “$12.00”

ELSE IF pay\_table(Index\_pay) = 04 THEN

Print “$20.00”

ELSE IF pay\_table(Index\_pay) = 05 THEN

Print “$23.50”

ELSE IF pay\_table(Index\_pay) = 06 THEN

Print “$27.00”

ELSE IF pay\_table(Index\_pay) = 07 THEN

Print “$33.00”

ENDIF

ENDIF

ENDDO

Print total\_employee

END